

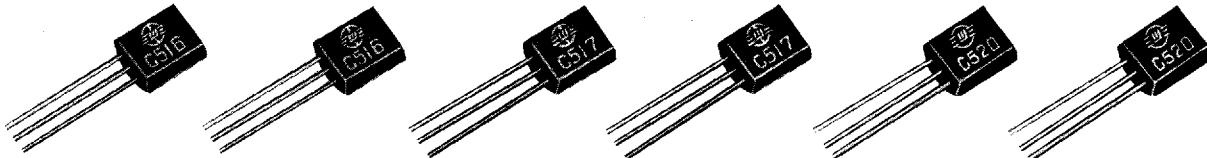


MONOLITHIC IC

MITSUMI

3端子形安定化電源/3-Terminal Stabilized Power Supply

Monolithic IC LVC-516, 517, 520



LVCシリーズは、従来からの3端子型安定化電源とくらべ、最小入出力電圧差をTyp. 0.2Vとした安定化電源で、電池使用のポータブル機器に使用すると、電池の利用率が向上、寿命が大きく伸びます。

LVC series as the stabilized power supply with the minimum input-output voltage difference set at Typ. 0.2V, which compares favorably against the conventional 3-terminal stabilized power supply. When used for battery-driven portable equipment, it improves the battery efficiency and prolongs its life-span.

■特長

- (1) 最小入出力電圧差 Typ. 0.2V
- (2) 出力電圧温度係数 Typ. $\pm 0.01\%/\text{°C}$
- (3) 無負荷時入力電流 Max. 2.5mA
- (4) パッケージ TO-92

■FEATURES

- (1) Minimum input-output voltage : Typ. 0.2V
- (2) Output voltage temperature coefficient : Typ. $\pm 0.01\%/\text{°C}$
- (3) Unloaded input current : Max. 2.5mA
- (4) Package : TO-92

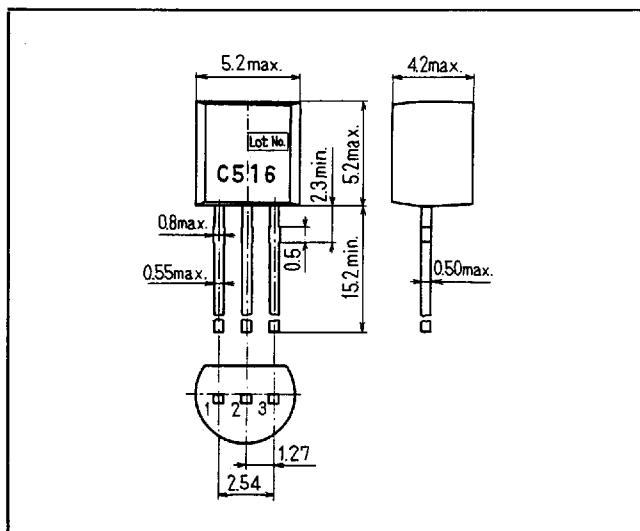
■用途

- (1) ハンドヘルドコンピュータ
- (2) ハンディトランシーバ
- (3) コードレス電話
- (4) その他電池使用ポータブル機器

■APPLICATIONS

- (1) For hand-held computer.
- (2) For handy transceiver.
- (3) For cordless telephone.
- (4) For other battery-driven portable equipment.

■外形図/DIMENSIONS



■最大定格/MAXIMUM RATING

項目 Item	記号 Symbol	定格 Rating	単位 Unit
動作温度 Operating Temperature	Topr	-20 ~ +60	°C
保存温度 Storage Temperature	Tstg	-30 ~ +125	°C
入力電圧 Input Voltage	Vin	15	V
出力電流 Output Current	It	100	mA
消費電力 Power Consumption	Pd	300	mW



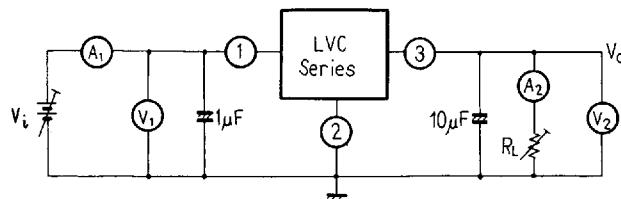
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■ 電気的特性/ELECTRICAL CHARACTERISTICS

(Ta=25°C)

項目 Item	条件 Condition	LVC516			LVC517			LVC520			単位 Unit		
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.			
入力電圧 Input Voltage	Vi		3.4	5.0	10				3.0	5.0	7.0	V	
入力電流 Input Current	Ii	Io=0	0.5	2.5	Vi=7.0V	0.5	2.5	Vi=9.0V	0.5	2.5	Vi=7.0V	mA	
出力電圧 Output Voltage	Vo	Io=20	2.9	3.0	3.1	Vi=5.0V	4.8	5.0	5.2	2.5	2.6	2.7	V
出力電流 Output Current	Io		30		Vi=3.4V				30		Vi=3.0V	mA	
出力電圧温度係数 Output Voltage Temperature Coefficient	△V1	Io=20mA Ta=-20 ~+60°C	±0.01		Vi=5.0V	±0.01		Vi=9.0V	±0.01		Vi=5.0V	%/°C	
入力変動 Input Fluctuations	△V2	Io=30mA		±0.2	Vi=3.4~10V		±0.2	Vi=5.6~10V		±0.2	Vi=3~7V	%/V	
負荷変動 Load Fluctuations	△V3	Io=0~30mA		±0.1	Vi=5.0V		±0.1	Vi=9.0V		±0.1	Vi=5.0V	%/mA	
リップル圧縮度 Ripple Rejection	Reg IN	Io=20mA f=100Hz, 1Vp-p				50		Vi=9.0V				dB	

■ 測定回路/MEASURING CIRCUIT



A1, A2 : 直流電流計/DC Ammeter

V1, V2 : 直流電圧計/DC Voltmeter (Zin=1MΩ min.)

使用コンデンサ：タンタルコンデンサ



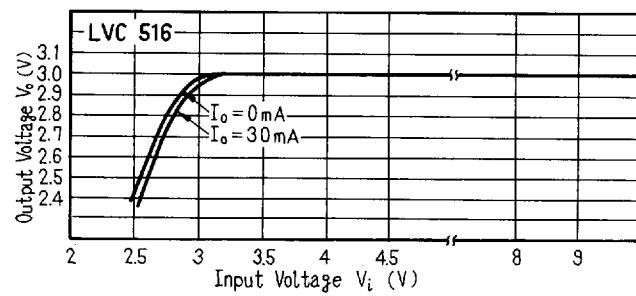
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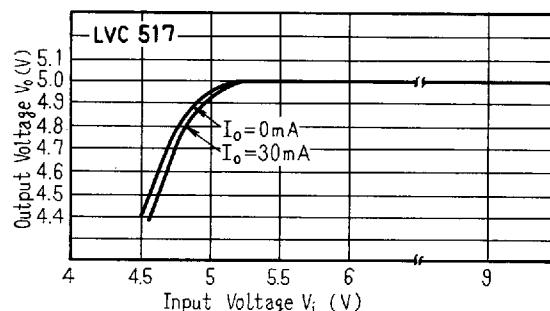
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■ 特性図/CHARACTERISTICS

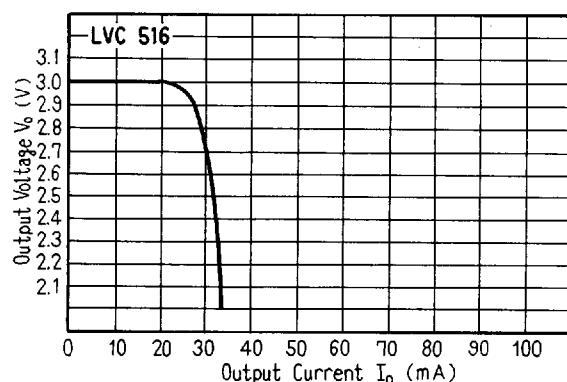
■ LVC516 入力特性/Input-Output Charac.



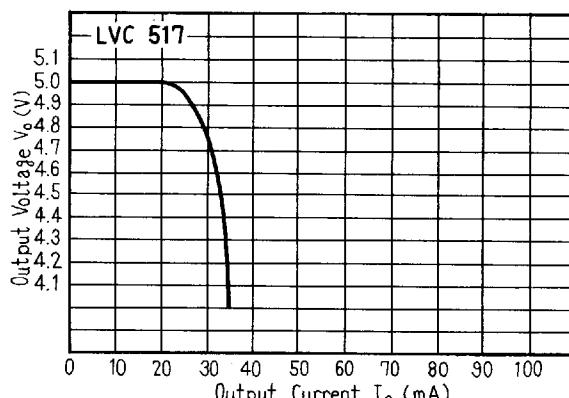
■ LVC517 入出力特性/Input-Output Charac.



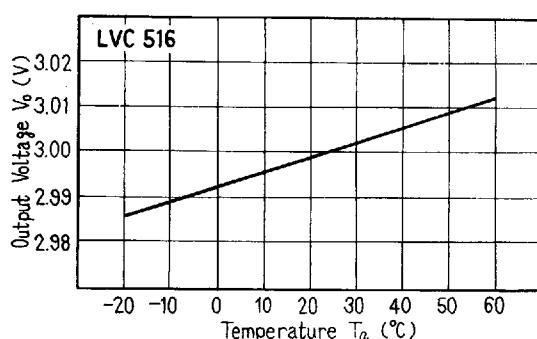
■ LVC516 負荷特性/Load Charac.



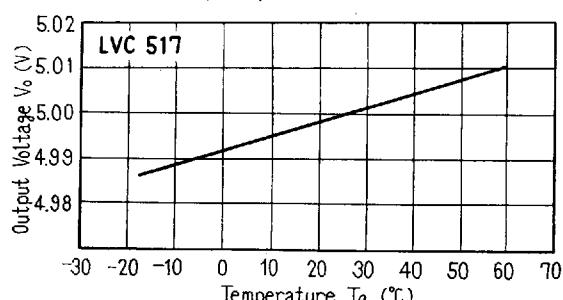
■ LVC517 負荷特性/Load Charac.



■ LVC516 溫度特性/Temperature Charac.



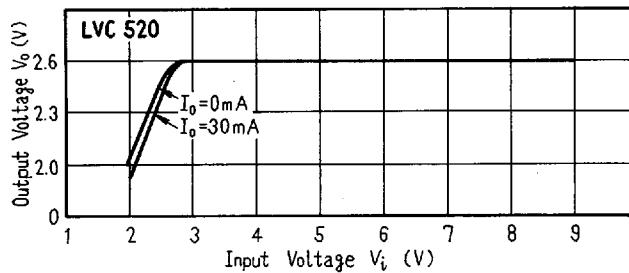
■ LVC517 溫度特性/Temperature Charac.



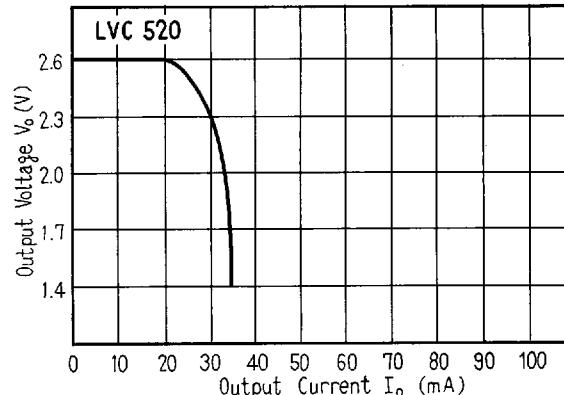
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■特性図/CHARACTERISTICS

■LVC20 入出力特性/Input-Output Charac.



■LVC20 負荷特性/Load Charac.



■LVC520 温度特性/Temperature Charac.

